Index of Claims

| Ap | plica | tion/ | Con | ıtrol | No. |
|----|-------|-------|-----|-------|-----|

09/980,744

Applicant(s)/Patent under Reexamination BIRNBAUM ET AL.

Examiner

Art Unit

Nathan Price

2194

Rejected Allowed

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
|   |                                |

Restricted

Non-Elected N Interference

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla       | im                   | Date                                             |                                                  |              |              |          |          |          |                                     |                                                  |   | 9        |
|-----------|----------------------|--------------------------------------------------|--------------------------------------------------|--------------|--------------|----------|----------|----------|-------------------------------------|--------------------------------------------------|---|----------|
| Final     | Original             | <                                                |                                                  |              |              |          |          | •        |                                     |                                                  |   | Final    |
| }         | 1                    | 1                                                | -                                                | _            | H            | _        | _        | _        |                                     | $\neg$                                           |   |          |
| -         | 2                    | 1                                                |                                                  |              | T            |          |          |          |                                     |                                                  |   |          |
|           | 3                    | 1                                                |                                                  |              |              |          |          |          |                                     |                                                  |   |          |
|           | 4<br>5               | V                                                |                                                  |              |              |          |          |          |                                     |                                                  |   |          |
|           |                      | 1                                                |                                                  |              |              | _        |          | _        |                                     |                                                  |   |          |
| <u> </u>  | 6<br>7               | 1                                                | <u> </u>                                         | ļ            | <u> </u>     | _        |          |          |                                     |                                                  |   |          |
| <u> </u>  | 7                    | 1                                                | _                                                |              | -            | _        | _        |          |                                     | $\Box$                                           |   |          |
| ļ         | 8<br>9               | 1                                                | <u> </u>                                         |              | <del> </del> | _        | -        |          |                                     |                                                  |   |          |
| <u> </u>  | 10                   | 1                                                |                                                  | ┝            | ⊢            | -        | $\vdash$ | _        | $\vdash$                            |                                                  |   |          |
|           | 11                   | 1                                                | $\vdash$                                         | $\vdash$     | ┢            | -        | $\vdash$ | _        | Н                                   | _                                                |   | -        |
| <u> </u>  | 12                   | 1                                                |                                                  | $\vdash$     |              | ┢╌       | H        | _        | Н                                   |                                                  |   |          |
| <b>——</b> | 13                   | 1                                                |                                                  |              |              | _        | $\vdash$ |          | Г                                   |                                                  |   |          |
|           | 12<br>13<br>14<br>15 | 1                                                |                                                  | $\vdash$     | Г            |          |          |          |                                     |                                                  |   |          |
|           | 15                   | 1                                                |                                                  |              |              |          |          |          |                                     |                                                  |   |          |
|           | 16                   | 1                                                |                                                  |              |              |          |          |          |                                     |                                                  |   |          |
|           | 17<br>18<br>19       | V                                                |                                                  |              | 1            | <u> </u> |          | _        | _                                   |                                                  |   |          |
| <u> </u>  | 18                   | √                                                |                                                  |              | _            | <u> </u> |          | _        | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | $oxed{oxed}$                                     |   | _        |
|           | 19                   | 1                                                | _                                                | <u> </u>     |              |          | <u> </u> | -        | -                                   |                                                  |   |          |
| -         | 20<br>21             | 1                                                | ├                                                |              | -            | -        | ┝        | ┝        |                                     |                                                  |   |          |
|           | 22                   | V                                                | ┢                                                | -            | ⊢            | $\vdash$ | $\vdash$ | -        | ┝                                   | -                                                |   |          |
| <u> </u>  | 22<br>23             | 1                                                | ┢                                                | -            | $\vdash$     | -        | -        | ┢┈       | -                                   | $\vdash$                                         |   |          |
|           | 24                   | 1                                                |                                                  |              | $\vdash$     | -        | ┢        | $\vdash$ | $\vdash$                            |                                                  |   | -        |
|           | 25                   | V                                                | Т                                                |              | $\vdash$     | -        |          |          |                                     |                                                  |   |          |
|           | 25<br>26<br>27       | 1                                                |                                                  |              | Π            |          |          |          |                                     |                                                  |   |          |
|           | 27                   | 1                                                |                                                  |              |              |          |          |          |                                     |                                                  |   |          |
|           | 28                   | 1                                                | L                                                |              | ᆫ            | <u> </u> | <u> </u> | <u> </u> | <u> </u>                            | <u> </u>                                         |   |          |
| <u> </u>  | 29                   | 1                                                | <u> </u>                                         | <u> </u>     | <u> </u>     | _        | L        | ļ        | <u> </u>                            | <u> </u>                                         |   |          |
| <u> </u>  | 30<br>31             | 1                                                | <u> </u>                                         | <u> </u>     | -            | _        | <b> </b> | ┝        | <del> </del>                        |                                                  |   |          |
|           | 32                   | -                                                | -                                                | ⊢            | ┢            | -        | ⊢        |          | $\vdash$                            | <del> </del>                                     | į |          |
|           | 33                   | ┝╌                                               | ├─                                               | ┢            | ╁            |          | $\vdash$ | -        | ┢                                   | ┝                                                | l |          |
|           | 34                   | $\vdash$                                         | $\vdash$                                         | -            | $\vdash$     | -        | ┢        |          | H                                   |                                                  | ŀ | -        |
|           | 35                   | $\vdash$                                         | Г                                                |              | T            | 1        | _        |          | 一                                   |                                                  | l |          |
| ļ         | 36                   |                                                  | Г                                                |              | $\vdash$     |          |          |          |                                     |                                                  |   |          |
|           | 36<br>37             |                                                  |                                                  |              |              |          |          |          |                                     |                                                  |   |          |
|           | 38                   | _                                                | <u> </u>                                         | L            | ╙            | _        | _        |          | _                                   |                                                  |   | <u> </u> |
| <u> </u>  | 39                   | <u> </u>                                         | <u> </u>                                         | <u> </u>     | <u> </u>     | _        | _        | _        | <u> </u>                            |                                                  |   |          |
| <u> </u>  | 40                   | <u> </u>                                         | <u> </u>                                         | ļ_           | ▙            | _        | <u> </u> | _        | _                                   |                                                  |   | <u> </u> |
| <u> </u>  | 41                   | -                                                |                                                  | <del> </del> | ⊢            | -        | ├-       | _        | 1—                                  | <u> </u>                                         |   | ├        |
| -         | 43                   | $\vdash$                                         | $\vdash$                                         | $\vdash$     | $\vdash$     | -        |          | $\vdash$ | $\vdash$                            | <del> </del>                                     |   |          |
|           | 44                   | $\vdash$                                         | $\vdash$                                         | $\vdash$     | ╁            |          | -        | ┢        | -                                   | <del>                                     </del> |   | -        |
| $\vdash$  | 45                   | <del>                                     </del> | <del>                                     </del> | $\vdash$     | $\vdash$     |          |          | $\vdash$ |                                     |                                                  |   |          |
|           | 46                   | $\vdash$                                         | Т                                                | $\vdash$     | ⇈            |          |          | Г        |                                     | <u> </u>                                         |   | <u> </u> |
|           | 47                   |                                                  | Π                                                |              | L            |          |          |          |                                     |                                                  |   |          |
|           | 48                   |                                                  |                                                  |              |              |          |          |          |                                     |                                                  |   |          |
|           | 49                   |                                                  | 匚                                                |              | oxdot        |          | <u> </u> | لَـــا   |                                     | L                                                |   |          |
|           | 50                   |                                                  | L                                                | <u></u>      | <u>L</u>     | <u>L</u> | L        |          | <u></u>                             |                                                  |   |          |

| Cla      | im             | Date                                |          |                                                  |          |                                                  |          |          |          |              |  |  |
|----------|----------------|-------------------------------------|----------|--------------------------------------------------|----------|--------------------------------------------------|----------|----------|----------|--------------|--|--|
|          |                |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
| <u></u>  | Original       |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
| Final    | rig            |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
| -        | 0              |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
|          | 51             |                                     | $\vdash$ |                                                  |          | $\vdash$                                         |          | _        | _        |              |  |  |
|          | 52             | _                                   | ┢┈       | <del>                                     </del> | _        |                                                  |          |          | _        | _            |  |  |
|          | 53             | _                                   | $\vdash$ | $\vdash$                                         |          | H                                                |          | _        | _        | _            |  |  |
| -        | 54             | -                                   | $\vdash$ | H                                                | -        |                                                  | -        | -        |          | $\vdash$     |  |  |
|          | 53<br>54<br>55 | -                                   | -        | -                                                | ⊢        | -                                                |          | -        |          | $\vdash$     |  |  |
|          | 56             | ⊢                                   | ├─       | ⊢                                                | $\vdash$ | -                                                |          | H        |          | _            |  |  |
|          | 57             | <u> </u>                            | -        | ┝                                                | -        | -                                                | -        | Η:       |          |              |  |  |
| <u> </u> | 58             |                                     | -        | -                                                | _        |                                                  | -        |          |          |              |  |  |
| -        | 50             | -                                   | -        | $\vdash$                                         | ┝        |                                                  | -        | _        |          |              |  |  |
| -        | 59             | -                                   | ├-       | -                                                | <u> </u> |                                                  | _        | _        |          | $\vdash$     |  |  |
| <b>_</b> | 60             | <u> </u>                            | <u> </u> | <u> </u>                                         | <u> </u> | H                                                |          |          |          |              |  |  |
|          | 61<br>62       | _                                   | ļ        | <u> </u>                                         |          | L                                                | _        |          |          | _            |  |  |
| <u></u>  | 62             | <u> </u>                            | $\vdash$ | ļ                                                | <u> </u> | $\vdash$                                         | <u> </u> | <u> </u> | <u> </u> | Щ.           |  |  |
| L        | 63             | ļ                                   | <u> </u> | <u> </u>                                         | <u> </u> | $ldsymbol{ldsymbol{eta}}$                        |          |          |          | <u> </u>     |  |  |
| L        | 64<br>65       | <u> </u>                            | _        | _                                                | <u> </u> | <u></u>                                          | <u> </u> | <u>L</u> | <u> </u> | <u> </u>     |  |  |
|          | 65             | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _        | _                                                | <u> </u> | _                                                | L        |          | _        | <u> </u>     |  |  |
|          | 66             | L.                                  |          |                                                  |          | _                                                |          | L        |          | <u> </u>     |  |  |
|          | 67             |                                     |          |                                                  | _        |                                                  |          |          | L        |              |  |  |
|          | 68             |                                     |          |                                                  |          |                                                  |          |          |          | L            |  |  |
|          | 69<br>70       |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
|          | 70             |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
|          | 71             |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
|          | 72<br>73       |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
|          | 73             | Γ                                   |          |                                                  |          |                                                  |          |          |          |              |  |  |
|          | 74             |                                     |          |                                                  |          |                                                  |          |          |          |              |  |  |
|          | 75             | ऻ                                   |          | T                                                |          |                                                  |          |          | Г        |              |  |  |
|          | 75<br>76       | <u> </u>                            |          | Г                                                | $\vdash$ | Г                                                |          |          |          |              |  |  |
|          | 77             | $\vdash$                            | -        |                                                  | -        |                                                  |          |          | Г        |              |  |  |
|          | 77<br>78       |                                     | 1        |                                                  |          |                                                  |          |          | _        | Г            |  |  |
|          | 79             |                                     | $\vdash$ | ┰                                                | $\vdash$ | <del>                                     </del> | H        |          | $\vdash$ |              |  |  |
|          | 80             |                                     |          | H                                                | -        |                                                  |          |          | ┢        | $\vdash$     |  |  |
|          | 81             |                                     |          | ┢                                                | $\vdash$ |                                                  | ┢        |          |          | -            |  |  |
|          | 82             | ├                                   | -        | ┼╌                                               | ┢        | ┢                                                | -        | -        | $\vdash$ | -            |  |  |
|          | 83             | ┢                                   | ┢─       | ├-                                               |          | ┢                                                | ⊢        |          | ┢        | -            |  |  |
| -        | 84             |                                     |          | ╁                                                | ┥        | ├                                                | -        | $\vdash$ | $\vdash$ | $\vdash$     |  |  |
| -        | 85             | ⊢                                   | $\vdash$ | $\vdash$                                         | $\vdash$ | $\vdash$                                         | $\vdash$ | ⊢        | ├-       | <del> </del> |  |  |
| -        | 86             |                                     | $\vdash$ | $\vdash$                                         | -        | $\vdash$                                         | $\vdash$ | -        | -        | $\vdash$     |  |  |
| -        | 00             | -                                   | $\vdash$ | <u> </u>                                         | ├        | <u> </u>                                         | ├-       | -        | ├-       |              |  |  |
| <u> </u> | 87             | ⊢                                   | ├-       | -                                                | $\vdash$ | ├-                                               | -        | -        | ⊢-       |              |  |  |
| <u> </u> | 88             | ⊢-                                  | <b> </b> | <del> </del>                                     | <b>-</b> | <u> </u>                                         | $\vdash$ | <u> </u> | ├-       | -            |  |  |
| <u></u>  | 89             | L-                                  | <u> </u> | <u> </u>                                         | L-       | L.                                               | <u> </u> | <u> </u> | <u> </u> | <b>—</b>     |  |  |
|          | 90             | _                                   | <u> </u> | ╙                                                | $\vdash$ | Ь—                                               | ļ        | ļ        | <u> </u> | -            |  |  |
|          | 91             | L_                                  | L_       | <u> </u>                                         | L.       | <u> </u>                                         | <u> </u> |          | L_       | <u> </u>     |  |  |
| <u></u>  | 92             | $oxed{}$                            | <u> </u> | <u> </u>                                         |          | L                                                | <u> </u> |          | <u> </u> | <u> </u>     |  |  |
| L        | 93             | L_                                  | _        | _                                                | L        | <u> </u>                                         |          |          | <u> </u> | <u> </u>     |  |  |
| L        | 94             | L                                   | _        |                                                  |          | L                                                | _        |          |          |              |  |  |
|          | 95             | $\Box$                              |          | $oxedsymbol{oxed}$                               | L        | $oxedsymbol{oxed}$                               | L        | L        | L        | oxdot        |  |  |
|          | 96             | L                                   | L        | L                                                |          | L                                                |          |          | Ĺ        |              |  |  |
|          | 97             |                                     |          | Ĺ                                                |          |                                                  |          | L        | Ĺ        | Ĺ            |  |  |
|          | 98             | $\Box$                              |          |                                                  |          | Γ                                                | $L^-$    |          |          |              |  |  |
|          | 99             |                                     |          | Г                                                |          |                                                  |          |          |          |              |  |  |
|          | 100            |                                     |          | Γ                                                |          | Г                                                |          |          |          |              |  |  |
|          |                |                                     | _        |                                                  |          |                                                  |          | _        |          |              |  |  |

| Claim        |                                                      | Date         |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |
|--------------|------------------------------------------------------|--------------|--------------------------------------------------|------------------------------------------------------------------|----------------|--------------|--------------|----------|--------------------------------------------------|----------|--|--|
|              |                                                      |              |                                                  | Γ                                                                |                |              |              | _        |                                                  |          |  |  |
| न            | Original                                             |              |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |
| Final        | įĝ                                                   |              |                                                  | Ì                                                                |                |              |              |          |                                                  |          |  |  |
| ~            | Ō                                                    |              |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |
|              | 101                                                  | _            | -                                                | ├                                                                |                | _            | _            |          |                                                  | -        |  |  |
|              | 101<br>102<br>103                                    |              |                                                  | -                                                                |                | _            | -            |          | -                                                |          |  |  |
|              | 102                                                  |              | <u> </u>                                         |                                                                  | _              | _            | _            | _        | -                                                |          |  |  |
|              | 103                                                  |              |                                                  | ├                                                                | _              | $\vdash$     | -            |          | $\vdash$                                         |          |  |  |
|              | 104                                                  |              |                                                  |                                                                  |                |              |              |          | _                                                |          |  |  |
|              | 105<br>106<br>107                                    |              |                                                  |                                                                  |                |              |              |          | _                                                | Ш        |  |  |
|              | 106                                                  |              |                                                  | _                                                                |                |              |              |          |                                                  | Щ        |  |  |
|              | 107                                                  |              |                                                  | _                                                                |                | _            | _            |          |                                                  | Ш        |  |  |
|              | 108<br>109                                           |              |                                                  | <u> </u>                                                         |                |              |              |          | L                                                |          |  |  |
|              | 109                                                  |              |                                                  | L                                                                |                |              |              |          |                                                  | Ш        |  |  |
|              | 110                                                  |              |                                                  | L                                                                |                |              |              |          |                                                  |          |  |  |
|              | 111                                                  |              |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |
|              | 112                                                  |              |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |
|              | 113<br>114<br>115                                    |              |                                                  |                                                                  |                |              |              |          |                                                  | П        |  |  |
|              | 114                                                  | Г            |                                                  | Г                                                                | Γ              |              |              |          |                                                  | М        |  |  |
|              | 115                                                  |              | $\vdash$                                         | $\vdash$                                                         | Г              | $\vdash$     |              | _        | _                                                |          |  |  |
|              | 116                                                  |              |                                                  | Г                                                                | T              | 1            | T-           | $\vdash$ | 1                                                | М        |  |  |
|              | 117                                                  | $\vdash$     | $\vdash$                                         | $\vdash$                                                         | $\vdash$       |              |              | $\vdash$ | <del>                                     </del> | Н        |  |  |
|              | 116<br>117<br>118<br>119                             | $\vdash$     | <del>                                     </del> | <del>                                     </del>                 | -              | <del> </del> | <del> </del> |          | $\vdash$                                         | H        |  |  |
|              | 110                                                  | ├-           | $\vdash$                                         | $\vdash$                                                         | $\vdash$       | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$                                         | Н        |  |  |
|              | 120                                                  | -            | <del> </del>                                     | -                                                                | $\vdash$       | ├            | <del> </del> | $\vdash$ | $\vdash$                                         | H        |  |  |
|              | 120                                                  | $\vdash$     | $\vdash$                                         | $\vdash$                                                         | <del> </del>   | $\vdash$     | $\vdash$     | $\vdash$ | $\vdash$                                         | $\vdash$ |  |  |
|              | 121<br>122<br>123                                    | ⊢            | <u> </u>                                         | $\vdash$                                                         | ⊢              | -            | -            | -        | ├-                                               | Н        |  |  |
|              | 122                                                  | -            | -                                                |                                                                  | -              | $\vdash$     | ⊢            | _        | ┢                                                | Н        |  |  |
|              | 123                                                  |              | <u> </u>                                         | -                                                                |                | $\vdash$     | <u> </u>     | <u> </u> | <u> </u>                                         | Н        |  |  |
|              | 124<br>125<br>126<br>127<br>128<br>129<br>130<br>131 | ļ            | _                                                | -                                                                | -              | <u> </u>     | <u> </u>     | <u> </u> | _                                                |          |  |  |
|              | 125                                                  | <u> </u>     | <u> </u>                                         | _                                                                | _              | ļ            | _            | <u> </u> | _                                                |          |  |  |
| <u> </u>     | 126                                                  | _            | L                                                |                                                                  |                | <u> </u>     | _            | <u> </u> | <u> </u>                                         |          |  |  |
| L            | 127                                                  |              |                                                  | _                                                                |                | _            | _            |          | _                                                | Ш        |  |  |
|              | 128                                                  | _            | Ŀ                                                | L                                                                | <u> </u>       |              | L.           | <u> </u> |                                                  | Щ        |  |  |
|              | 129                                                  |              |                                                  |                                                                  |                | L            | <u> </u>     |          | _                                                |          |  |  |
|              | 130                                                  |              |                                                  |                                                                  | L              |              |              |          |                                                  |          |  |  |
|              | 131                                                  |              |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |
|              | 132                                                  |              |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |
|              | 133                                                  |              | Γ                                                | Γ                                                                |                |              |              |          |                                                  |          |  |  |
|              | 132<br>133<br>134                                    |              | Γ                                                | П                                                                |                | $\Box$       | Γ            | Γ        | Γ                                                |          |  |  |
|              | 135                                                  |              |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |
|              | 136                                                  | Γ            | Г                                                | Ī                                                                |                | П            | Г            |          |                                                  |          |  |  |
| T            | 137                                                  |              |                                                  |                                                                  |                |              |              |          | $\vdash$                                         |          |  |  |
|              | 137<br>138                                           | ऻ            | <del>                                     </del> |                                                                  | T .            | <u> </u>     | Г            | Ι-       |                                                  | П        |  |  |
|              | 139                                                  | $\vdash$     |                                                  |                                                                  | 1              | <del> </del> |              |          | Т                                                |          |  |  |
| <u> </u>     | 140                                                  | ┢            | $\vdash$                                         | $\vdash$                                                         | $\vdash$       | ┢            | $\vdash$     | Т        | $\vdash$                                         | $\vdash$ |  |  |
| <del></del>  | 141                                                  | $\vdash$     | $\vdash$                                         | $\vdash$                                                         | <del>  -</del> | ┢            | $\vdash$     | ╁        | H                                                |          |  |  |
| <del> </del> | 142                                                  | ┢            | <u> </u>                                         |                                                                  | $\vdash$       | <del> </del> | $\vdash$     | $\vdash$ | $\vdash$                                         | +        |  |  |
| $\vdash$     | 143                                                  | ┢            | <del>                                     </del> | -                                                                | +-             |              | +-           | $\vdash$ | 1                                                | $\vdash$ |  |  |
| <del> </del> | 144                                                  | -            | $\vdash$                                         | $\vdash$                                                         | ╁              | -            | ╁            | ┢        | ╁╾                                               | -        |  |  |
| <u> </u>     |                                                      | ├-           |                                                  | <del> </del> —                                                   | ╁              | $\vdash$     | <del> </del> | ⊢        | ├                                                | -        |  |  |
| <u> </u>     | 145                                                  | <del> </del> | <u> </u>                                         | ⊢                                                                | <b>-</b>       | ├-           | -            | <u> </u> | <del>!</del> —                                   |          |  |  |
| <u> </u>     | 146                                                  | <u> </u>     | <u> </u>                                         | ۲-                                                               | ├-             | $\vdash$     | <u> </u>     | ├-       | ├                                                | -        |  |  |
| <u> </u>     | 147                                                  | ↓_           | $\vdash$                                         | ┞                                                                | <b> </b> _     | _            | <u> </u>     | _        | <u> </u>                                         | <u> </u> |  |  |
| <u> </u>     | 148                                                  | <u> </u>     | <u> </u>                                         | <u> </u>                                                         | L              | L_           | L_           | L_       | L_                                               | Ш        |  |  |
|              | 149                                                  |              | L                                                | L                                                                | L              | _            |              | L        | L                                                | L        |  |  |
|              | 150                                                  |              |                                                  | $oxedsymbol{oxedsymbol{oxedsymbol{oxedsymbol{oxedsymbol{eta}}}}$ | L              | L            |              |          | L                                                |          |  |  |
|              |                                                      |              |                                                  |                                                                  |                |              |              |          |                                                  |          |  |  |